

Lecture notes

URINARY SYSTEM

two retroperitoneal organs:

- **kidneys** - where functional units (nephron) are located
 - formation of urine
- **excretory passages**
 - (renal pelvis, ureter, urinary bladder, urethra)
 - for temporary storage and periodic evacuation

functions:

- water and electrolyte homeostasis
- excretion of many toxic metabolic waste products (nitrogenous compounds → uree and creatinine)
- osmoregulation
- production of renin (regulation of blood pressure) and erythropoietin (stimulates RBC synthesis)

KIDNEYS

- bean-shaped paired organs situated retroperitoneally
- **hilus** → concavity found in the medial border w/c serves as a point of entrance for the renal artery and exit for the renal vein and ureter
- gland is classified morphologically as **compound tubular**
- parenchyma → compact mass of uriniferous tubules
- stroma → scanty fibroreticular CT
- **Renal Cortex** (peripheral portion)
 - darker reddish brown cortex
 - numerous radiating dark lines from the outer boundary to the capsule leaving a narrow zone → cortex cortices
- **Pars Radiata / Cortical Rays / Medullary Rays of Ferrein**
 - straight portions of the uriniferous tubules
 - continuous with the striate medulla
- **Pars Convoluta / Cortical Labyrinth**
 - intervening portions between the pars radiata
- **Renal Corpuscle / Malpighian Corpuscle**
 - convoluted portions of the uriniferous tubules
- **Renal Columns of Bertin / Cortical Septae**
 - narrow strips of cortical tissues deep down between the bases of the renal pyramids
 - inward extension of the darker cortical tissue which defines the lateral boundaries of each pyramid
- **Renal Medulla** (inner portion)
 - lighter or paler staining medulla
 - made up of 8-15 conical subdivisions → renal pyramids
 - no renal corpuscles
 - contains only the straight portions of the uriniferous tubules together with the loops of Henle

Boundary Zone

- a very vascular outer zone which joins the cortex

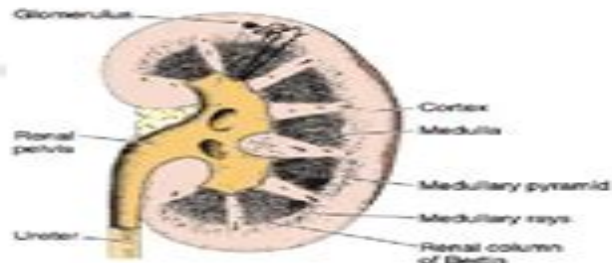
Papillary Zone

- inner zone, composed of the apices of the renal pyramids

Renal Lobe

Renal Lobule

- renal pyramid with cortical tissue
- smaller functional unit comprising a cortical ray and adjacent tissues



cortex	medulla
presence of renal corpuscles	absence of renal corpuscles
prominent alterations of pars radiata and convoluta	no alterations, straight parts only
acidophilic and brighter which contains more of the secretory portions	lighter in staining; contains the excretory tubules

- Uriniferous Tubules

- structural and functional unit of the kidneys
- principal portions:

- nephron

- tubular unit of the kidney
- corresponds to the secretory elements
- each segment is lined with specific type of epithelium specialized for a particular role in the formation of urine

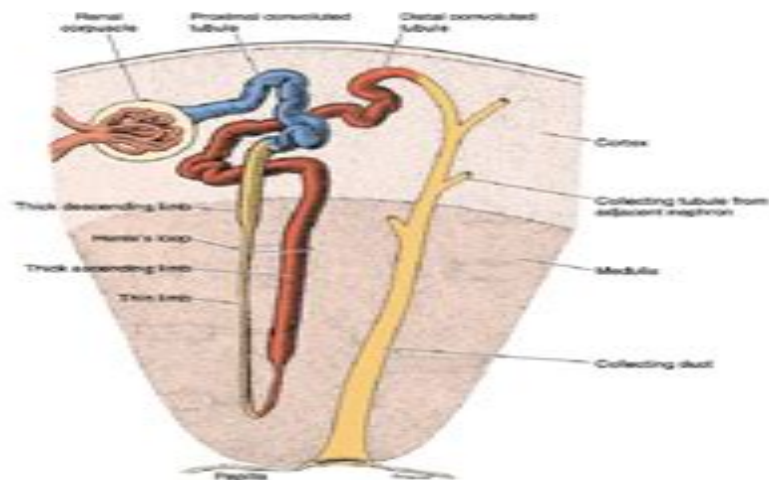
- i renal / Malpighian corpuscle (Bowman's capsule and Glomerulus)
- ii proximal convoluted tubule
- iii loop of Henle
- iv distal convoluted tubule

- collecting tubules / excretory portion

- ducts that convey the urine to the renal pelvis
- carries out hypertonic urine

- i arched collecting tubule
- ii straight collecting tubule
- iii papillary duct of Bellini

	secretory portion	excretory portion
staining	acidophilic granular	basophilic non granular
nucleus	pale staining	dark staining
lumen	small, irregular	round and clear
cell boundaries	indistinct	distinct



Urinary Study Guide

**Kirk J. Stucky, Michael W.
Kirkwood, Jacobus Donders**

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CEN® Exam Prep Study Guide Springer Publishing Company, 2023-03-16 CEN Exam Prep Study Guide gets right to the point with a targeted content based on the latest BCEN exam blueprint This easy to follow guide includes all the tools you need to prepare practice and pass the exam and nothing you don't PREPARE Concise coverage of the content you'll be tested on Quick reference features with complications alerts and nursing pearls Need to know information to prepare you for exam day PRACTICE Two full length practice tests one in book and one online to assess your readiness and simulate the test taking experience Detailed rationales for correct and incorrect answers Pop quizzes that highlight key information you don't want to miss PASS The first time with Springer Publishing Exam Prep's 100% Pass Guarantee With confidence knowing you're well prepared with all the skills and knowledge you need on exam day and in practice With pride in your commitment to patient health and safety CEN is a registered trademark of Board of Certification for Emergency Nursing BCEN BCEN does not sponsor or endorse this resource nor does it have a proprietary relationship with Springer Publishing Study Guide for Fundamentals of Nursing E-Book Barbara L. Yoost, Lynne R. Crawford, Patricia Castaldi, 2022-02-12 Get the review and practice you need to master the role of today's nurse With chapters corresponding to the chapters in Yoost's Fundamentals of Nursing 3rd Edition this study guide provides a variety of exercises and activities to reinforce your understanding of nursing concepts and skills Chapter reviews use engaging activities to make learning more meaningful and review questions help you apply concepts to the practice setting Now with new Next Generation NCLEX style practice questions this study guide also prepares you for success on classroom and NCLEX examinations Chapter review questions include multiple choice matching true false and image labeling questions testing your comprehension of nursing fundamentals and making learning more fun Answers and detailed rationales for all of the questions are included in the back of the study guide Skills performance checklists on the Evolve website are completely updated to match the latest versions of nursing skills and are both interactive and printable NEW Next Generation NCLEX style practice questions in clinical chapters help you develop skills in clinical judgment NEW Updated content reflects changes to the Fundamentals of Nursing 3rd Edition textbook NEW Preliminary Readings refer you back to the related chapter in the textbook NEW Open ended questions provide questions activities and guidance to make study group time more productive *Study Guide for Understanding Pathophysiology - E-Book* Sue E. Huether, Kathryn L. McCance, Clayton F. Parkinson, 2011-12-06 Designed to be used in tandem with the Understanding Pathophysiology 5th Edition textbook this study guide provides an in depth review of the most important pathophysiology facts and information Learning objectives Memory Check boxes and practice examinations for each chapter hone your understanding and help you review key concepts from the text This edition also features a greater variety in exercises and more case study questions for further analysis Answers to the practice examinations and a discussion of each case study question can be found in the back of the study guide Comprehensive coverage corresponds with the main text the

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Urology S. P. Pasiechnikov, O. D. Nikitin, R. A. Lytvynenko, I. M. Klymenko, I. L. Tarnavskiy, Y. V. Boukhalov, This educational methodical textbook comprises the theoretical and practical basis of general and special urology modern data concerned diagnostics and treatment The attention is paid to the description of male genitourinary system abnormalities the principles of diagnosis and treatment of inflammatory diseases urinary stone disease bladder outlet obstruction and neurogenic lower urinary tract dysfunction The textbook also covers information about acute and chronic renal insufficiency and their treatment problems of kidneys transplantation There are chapters dedicated to diagnosis and treatment of injuries and tumors of organs of male genitourinary system The educational methodical textbook is designed for English speaking students of higher medical institutions of IVth accreditation level

Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions Because this knowledge base crosses many different disciplines introduction to caring for the intensive care patient while exciting may also be intimidating This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful The book contains three components 1 description of the procedural tasks commonly performed for the critically ill patient 2 explanation of the most common pathophysiologic states encountered and 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader

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Study Guide to Accompany Rosdahl & Kowalski's Textbook of Basic Nursing Lazette Nowicki, Caroline Bunker Rosdahl, Eileen Klein, Mary T. Kowalski, 2002-11-21 This excellent study guide helps LPN LVN students get the most out of the Textbook of Basic Nursing Eighth Edition This concise learning tool allows students to review all the key material from the Eighth Edition and features a self study CD ROM they can use to help prepare for class or examinations

Medical Surgical Nursing Review Study Guide Comprehensive Review Certified Medical-Surgical Registered Nurse (CMSRN®) Review Donna D. Ignatavicius, Karen Wittrig, Brian Sutter, William Moore, 2020-01-19 Medical Surgical Nursing is a nursing specialty area concerned with the care of adult patients in a broad range of settings The Academy of Medical Surgical Nurses AMSN is a specialty nursing organization dedicated to nurturing medical surgical nurses as they advance their careers Covers only material required by The Academy of Medical Surgical Nurses AMSN Patient Problems by Physiological Systems Gastrointestinal Pulmonary Cardiovascular Diabetes types 1 2 and other Endocrine Genitourinary Renal and Reproductive Musculoskeletal and Neurological Hematological Immunological and Integumentary Domains of Nursing Practice Diagnostic and patient monitoring function Administering monitoring therapeutic interventions Helping role Teaching coaching function Effective management of rapidly changing situations Monitoring and ensuring quality of health care practices Organizational and work role competencies 334 pages fluff free study guide

Pediatric Board Study Guide Osama Naga, 2025-01-18 The second edition of this text has proved to be a very successful pediatric study guide helping many pediatricians around the world to study pediatrics in a very easy simplified way Even the most complex subjects are condensed into very straight forward and easy to remember information blocks This book not only prepares students to pass their exams but also prepares pediatricians for general pediatric encounters emphasizing all new updates from the American Academy of Pediatrics and American Board of Pediatrics It has proved very popular among new pediatricians and new pediatric residents worldwide In the last 3 years the AAP and ABP have released a lot of updates such as management of fever in well appearing infants COVID 19 asthma management and new vaccine guidelines from the CDC The pediatric board exam always includes new diseases which are included in each chapter as well as new questions and answers that must be added to the last minute

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Study Guide for Foundations of Nursing - E-Book Kim Cooper, Kelly Gosnell, 2019-10-31 Corresponding to the chapters in Cooper and Gosnell's Foundations of Nursing 8th Edition this study guide helps you learn understand and apply the fundamentals of LPN LVN nursing Hundreds of labeling matching and fill in the blank questions are included It also includes critical thinking questions based on clinical scenarios and multiple choice and alternate format questions to help you review for the NCLEX PN examination An increased emphasis on critical thinking and clinical scenarios prepares you more effectively for the NCLEX PN examination with more NCLEX style alternate format type questions and more critical thinking activities Learning activities help you meet content objectives and include crossword puzzles labeling matching completion identification NCLEX exam style multiple choice review questions and critical thinking questions NEW Updated and reworked content corresponds to the latest edition of Foundations of Nursing 8th Edition

Certified Professional Coder (CPC) Study Guide Calvin Yates, 2025-04-25 Are you ready to transform your passion for healthcare into a high demand career that offers flexibility stability and impact In today's rapidly evolving healthcare landscape the need for skilled medical coders has never been greater With insurance requirements becoming more complex and compliance standards tightening certified coding professionals play a crucial role in keeping healthcare systems efficient ethical and accurate This comprehensive study guide is your ultimate companion on the journey to passing the Certified Professional Coder CPC exam a nationally recognized credential that opens doors across hospitals outpatient centers physician offices insurance companies and beyond Whether you're transitioning from a clinical background entering the workforce for the first time or seeking to elevate your role in the healthcare revenue cycle this book is designed with your success in mind Through expertly structured chapters you'll build a rock solid understanding of medical terminology anatomy ICD 10 CM diagnosis coding CPT procedural coding HCPCS Level II Evaluation and

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Jarvis's Physical Examination and Health Assessment Laboratory Manual -EPUB3 EPUB Kathleen Blair,Mel Dudson,Andrea Miller,Nicole Norman,2016-07-19 Jarvis s Laboratory Manual for Physical Examination Health Assessment ANZ 2e is a practical step by step laboratory manual designed to develop competence in history taking and physical examination skills Each chapter guides students through a glossary study guide review questions and varied exercises as well as exploring practical skills and health assessment documentation including Regional Write Up Worksheets Fill in the blank matching true false and multiple choice questions to test your understanding of the material Spelling terminology measurements cultural and social considerations clinical procedures and best practice guidelines updated to reflect the most recent Australian and New Zealand standards Part of a revised comprehensive and revised learning package including Jarvis s Physical Examination Health Assessment ANZ 2e and Jarvis s Pocket Companion for Physical Examination Health Assessment ANZ 2e Includes Study Guide Answer Key on evolve Risk and safety screening for substance abuse chapter Revised contents fully aligned to Jarvis s Physical Examination Health Assessment ANZ 2e to reflect the increased focus on the relevance of the health assessment areas to the functional status of the person

E-book: Human Anatomy Saladin,2016-04-16 E book Human Anatomy

Clinical Neuropsychology Study Guide and Board Review Kirk J. Stucky,Michael W. Kirkwood,Jacobus Donders,2014 The Clinical Neuropsychology Study Guide and Board Review provides an easy to study volume with sample questions and recommended readings that are specifically designed to help individuals prepare for the ABCN written examination In addition this book can also be used as a teaching tool for graduate students and trainees at various levels The book is divided into three sections Section 1 Foundations of Clinical Neuropsychology Section II Fundamentals of Assessment and Section III Disorders and Conditions The format is geared toward exam preparation and is much less dense than a typical textbook Materials are provided in a concise outlined manner

with liberal use of bullets boxes and illustrations tables that allow readers to easily review and integrate information into their already established knowledge base To augment the study guide a recommended readings list at the end of each chapter provides references to more comprehensive materials considered important or seminal in each topic area

National Library of Medicine Audiovisuals Catalog National Library of Medicine (U.S.), **PET and PET/CT Study Guide** Andrzej Moniuszko,Adam Sciuk,2012-10-06 The PET and PET CT Study Guide presents a comprehensive review of nuclear medicine principles and concepts necessary for passing PET specialty board examinations The practice questions and content are similar to those found on the Nuclear Medicine Technology Certification Board NMTCB exam allowing test takers to maximize their chances of success The book is organized by test sections of increasing difficulty with over 650 multiple choice questions covering all areas of positron emission tomography including radiation safety radionuclides instrumentation and quality control patient care and diagnostic and therapeutic procedures Detailed answers and explanations to the practice questions follow Supplementary appendices include common formulas numbers and abbreviations along with a glossary of terms for easy access by readers The PET and PET CT Study Guide is a valuable reference for nuclear medicine technologists nuclear medicine physicians and all other imaging professionals in need of a concise review of the basics of PET and PET CT imaging

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